$$\begin{vmatrix}
\frac{1+i^{3}}{1+i} &= z_{1} \\
\frac{1+i^{3}}{1+i} &= z_{1}
\end{vmatrix} = \frac{2\left(\frac{1-i}{1+i}\right)^{2}}{2} = z_{2}$$

$$z_{1} = \frac{1+i^{3}}{1+i} = \frac{(1+i^{3})(1-i)}{(1+i^{3})(1-i)} = \frac{1+i^{2}+3}{2} = \frac{1+i^{2}+3}{2} = \frac{(1-i)^{2}}{2} = \frac{(1-i)^{2}}$$

.. Zz= L , Zz = - L